

Ref. 3

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **09026328 A**

(43) Date of publication of application: 28 . 01 . 97

(51) Int. Cl.

G01C 21/00

(21) Application number: 07176314

(22) Date of filing: 12 . 07 . 95

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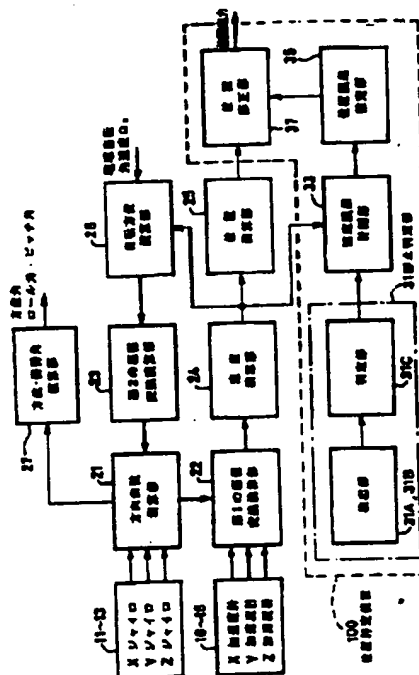
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(54) POSITION DETERMINATION APPARATUS

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a position determination apparatus by which the error of a position signal to be output by an inertial navigation system(INS) is estimated and a precise position signal is obtained.

SOLUTION: A position determination apparatus is provided with a speed-error measuring part 33 which measures the speed error of a navigating body when the navigating body is stopped and a position-error estimation part 35 which estimates a position error on the basis of the speed error measured by the speed-error measuring part and on the basis of its time differentiated value. The speed-error measuring part measures the speed error of the navigating body on the basis of a speed signal to be supplied by an inertial navigation system, and a position signal which is supplied by the inertial navigation system is corrected on the basis of the position error which is estimated by the position-error estimation part. The position-error estimation part estimates a speed error by using the Kalman filter.



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